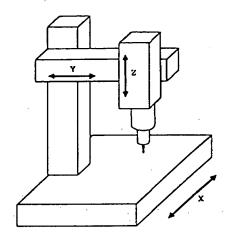
TITLE: NUMERICAL CONTROL APPARATUS INVENTORS: Takuji CHIBA, et al. SERIAL NO.: TBA DOCKET NO.: 392.1845

1/10

FIG. 1A

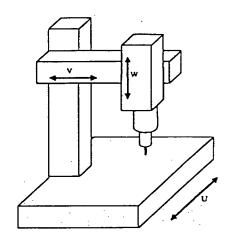
FIG. 1B

MACHINE A



CONTROLLED	AXIS
AXIS NUMBER	ADDRESS
1	X
2	Y
3	Z

MACHINE B



CONTROLLED	AXIS
AXIS NUMBER	ADDRESS
1	U
2	V
3	W

INVENTORS: Takuji CHIBA, et al. SERIAL NO.: TBA DOCKET NO.: 392.1845

2/10

FIG. 2A

O0010 (MACHIN-A); N001 G92 X0 Y0 Z0; N002 G90 G00 Z250.0 T11 M06; N003 G43 Z0 H11; N004 S30 M03; N005 G99 G81 X400.0 Y-350.0 Z-153.0 R-97.0 F120; N006 Y-550.0; N007 G98 Y-750.0; N008 G99 X1200.0; N009 Y-550.0;

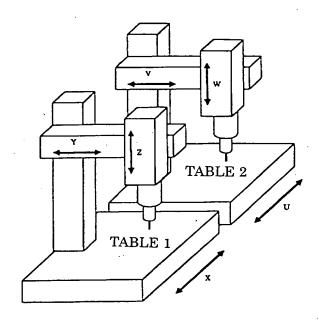
FIG. 2B

O0020 (MACHIN-B): N001 G92 U0 V0 W0: N002 G90 G00 W250.0 T11 M06; N003 G43 W0 H11; N004 S30 M03; N005 G99 G81 U400.0 V-350.0 W-153.0 R-97.0 F120; N006 V-550.0; N007 G98 V-750.0; N008 G99 U1200.0; N009 V-550.0;

TITLE: NUMERICAL CONTROL APPARATUS INVENTORS: Takuji CHIBA, et al. SERIAL NO.: TBA DOCKET NO.: 392.1845

3/10

FIG. 3



CONTROLLED	AXIS
AXIS NUMBER	ADDRESS
1	X
2	Y
3	Z
4	U
5	V
6	W

TITLE: NUMERICAL CONTROL APPARATUS

INVENTORS: Takuji CHIBA, et al. SERIAL NO.: TBA **DOCKET NO.: 392.1845**

4/10

FIG. 4A

O0030 (TABLE1); N001 G92 X0 Y0 Z0; N002 G90 G00 Z250.0 T11 M06; N003 G43 Z0 H11; N004 S30 M03; N005 G99 G81 X400.0 Y-350.0 Z-153.0 R-97.0 F120; N006 Y-550.0; N007 G98 Y-750.0: N008 G99 X1200.0; N009 Y-550.0;

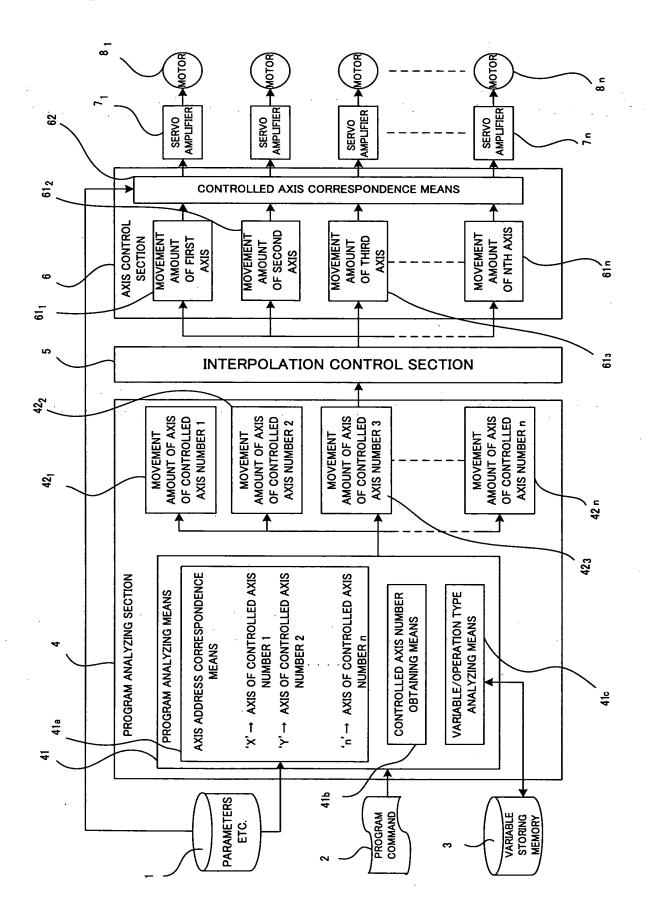
FIG. 4B

O0040(TABLE2); N001 G92 U0 V0 W0: N002 G90 G00 W250.0 T11 M06: N003 G43 W0 H11; N004 S30 M03; N005 G99 G81 U400.0 V-350.0 W-153.0 R-97.0 F120; N006 V-550.0; N007 G98 V-750.0; N008 G99 U1200.0; N009 V-550.0;

SERIAL NO .: TBA DOCKET NO.: 392.1845

5/10

FIG. 5



TITLE: NUMERICAL CONTROL APPARATUS INVENTORS: Takuji CHIBA, et al. SERIAL NO.: TBA DOCKET NO.: 392.1845

6/10

FIG. 6

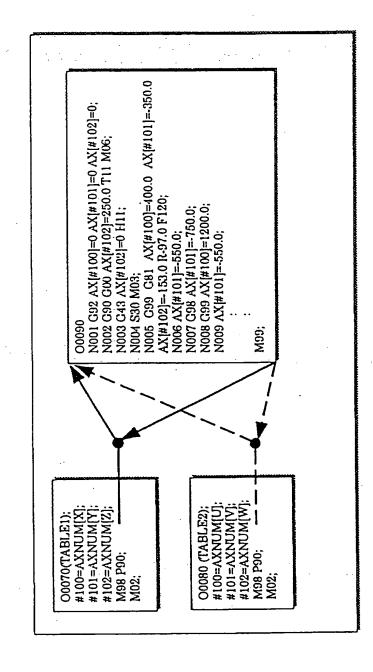
. :

00060(MACHIN-Λ&B); O0060(MACHIN-A&B); N001 G92 AX[1]=0 AX[2]=0 AX[3]=0; N002 G90 G00 AX[3]=250.0 T11 M06; N003 G43 AX[3]=0 H11; N004 S30 M03; N005 G99 G81 AX[1]=400.0 AX[2]=-350.0 AX[3]=-153.0 R-97.0 F120; N006 AX[2]=-550.0; N007 G98 AX[2]=-750.0; N008 G99 AX[1]=1200.0; N009 AX[2]=-550.0;

SERIAL NO.: TBA DOCKET NO.: 392.1845

7/10

FIG. 7



INVENTORS: Takuji CHIBA, et al. SERIAL NO.: TBA DOCKET NO.: 392.1845

8/10

FIG. 8

```
O0050 (REPEAT AXIS);
N001 G92 X0 Y0 Z0 U0 V0 W0 A0 B0 C0;
N002 G90 G01 F1000;
N003 X100.0;
N004 Y100.0;
N005 Z100.0;
N006 U100.0;
N007 V100.0;
N008 W100.0;
N009.A100.0;
N010 B100.0;
N011 C100.0;
N012 G00 X0 Y0 Z0 U0 V0 W0 A0 B0 C0;
```

FIG. 9

```
00100 (REPEAT AXIS);
N001 G92 X0 Y0 Z0 U0 V0 W0 A0 B0 C0;
N002 G90 G01 F1000;
N003 #100=AXNUM[X]:
N004 #101=AXNUM[C];
N005 #102=0;
N006 WHILE[#102 LT #101 | DO 1;
N007 \text{ AX}[#100+#102] = 100.0;
N008 #102=#102+1:
N009 END 1;
NO10 GOO XO YO ZO UO VO WO AO BO CO;
```

TITLE: NUMERICAL CONTROL APPARATUS INVENTORS: Takuji CHIBA, et al. SERIAL NO.: TBA DOCKET NO.: 392.1845

9/10

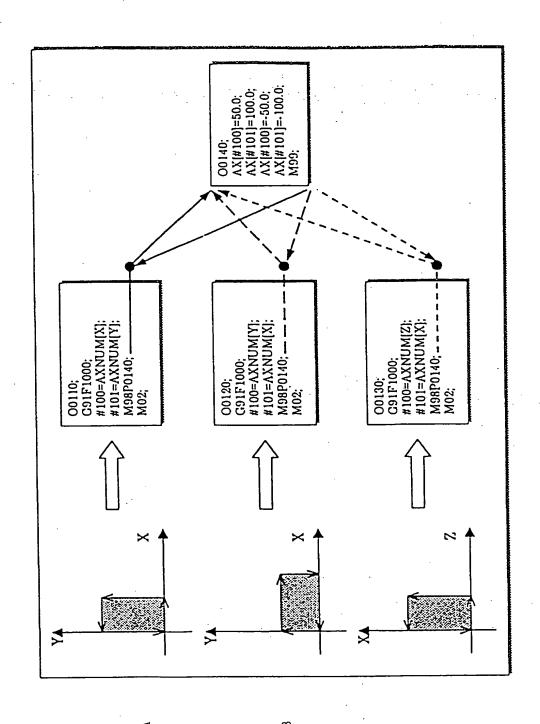


FIG. 10A

TITLE: NUMERICAL CONTROL APPARATUS

INVENTORS: Takuji CHIBA, et al.

SERIAL NO.: TBA DOCKET NO.: 392.1845

10/10

FIG. 11

